

STEPHEN A. HALL, Ph.D.
GEOLOGIST

<http://redrockgeological.com>

Address Red Rock Geological Enterprises
3 Cagua Road, Santa Fe, NM 87508-8116
Telephone (voice mail) & Fax 505-466-7755
Cell phone 505-660-5521
E-mail address **steve@redrockgeological.com**

DEGREES

Ph.D. 1975 University of Michigan, Ann Arbor; geology; [dissertation] "*Stratigraphy and Palynology of Quaternary Alluvium at Chaco Canyon, New Mexico*"
M.S. 1971 University of Iowa, Iowa City; geology; [thesis] "*Paleoecological Interpretation of Bison, Mollusks, and Pollen from the Hughes Peat Bed, Lynn County, Iowa*"
B.S. 1967 University of Oklahoma, Norman; major, geology

PROFESSIONAL POSITIONS

2002-present Consultant, Red Rock Geological Enterprises, Santa Fe, NM
1985-2002 Associate Professor/Professor, Dept. of Geography, Univ. of Texas at Austin, Austin, TX
1977-1985 Assistant/Associate Professor, Dept. of Geography, North Texas State University, Denton, TX
1975 Research Scientist, Dept. of Geology, N. Illinois Univ., DeKalb, IL
Summers, 1972-3 Chaco Center, U.S. National Park Service, Albuquerque, NM
1967-1968 Assistant in Petrology, Field Museum of Natural History, Chicago, IL
1963-1967 Geological Assistant, Oklahoma Geological Survey, Norman, OK
Summer, 1963 Paleontology Section, Smithsonian Institution, Washington, D.C.

BIOGRAPHICAL LISTINGS

American Men and Women of Science, Who's Who in Science and Engineering, Who's Who in the South and Southwest, Who's Who in the World

HONORS

Sigma Xi, Sigma Gamma Epsilon, NSF Traineeship (Univ. of Michigan) 1973-74; Certificate of Appreciation, from the Pueblo of Zuni, "with deep appreciation for your outstanding contribution to the enactment of the Zuni Land Conservation Act of 1990," signed by the Governor, Pueblo of Zuni; Gordon Research Conference on Aerobiology, Chairman (1987); Geological Society of America, Senior Fellow (1995)

PROFESSIONAL SERVICE

American Association of Stratigraphic Palynologists, Director-at-Large (1988-1989), nominated for President-Elect for 1995; Friends of the Pleistocene, co-leader (1987, 1989, 1994); International Association for Aerobiology, Secretary-General (1982-1986), Vice President (1986-1990); International Union of Biological Sciences, Commission on Aerobiology, Secretary (1982-1986), Chairman (1986-1990); International Union of Quaternary Research (INQUA), U.S. National Committee representative for the American Association of Stratigraphic Palynologists (1989-1994); Chaco Canyon Soil Advisory Group, NPS (2002); reviewer of numerous grant proposals for NSF and Natl. Geographic Soc.; manuscript reviewer for 6 presses and 26 professional journals

Grants and collaborative research awards, total >\$500,000, from National Science Foundation, National Geographic Society, Petroleum Research Fund, others

145 PUBLICATIONS, selected titles

2008, Archaeological geology of the Mescalero Sands, southeastern New Mexico: *Plains Anthropologist*, v. 53, p. 279-290. (S. A. Hall and R. J. Goble)

- 2008, OSL ages of upper Quaternary eolian sand and paleosols, northwest Albuquerque Basin, New Mexico: *New Mexico Geology*, v. 30, no. 2, p. 39-49. (S. A. Hall, R. J. Goble, and G. R. Raymond)
- 2007, Unusual Holocene alluvial record from Rio del Oso, Jemez Mountains, New Mexico: paleoclimatic and archaeological significance: *New Mexico Geological Society Guidebook, 58th Field Conference*, p. 459-468. (S. A. Hall and R. D. Periman)
- 2006, Geomorphology, stratigraphy, and luminescence age of the Mescalero Sands, southeastern New Mexico: *New Mexico Geological Society Guidebook, 57th Field Conference*, p. 297-310. (S. A. Hall and R. J. Goble)
- 2005, Ice Age vegetation and flora of New Mexico, in Lucas, S. G., Morgan, G. S., and Zeigler, K. E., eds., *New Mexico's Ice Ages: New Mexico Museum of Natural History and Science, Bulletin 28*, p. 171-183.
- 2002, Early irrigation on the Colorado Plateau near Zuni Pueblo, New Mexico: *American Antiquity*, v. 67, p. 665-676. (J. E. Damp, S. A. Hall, S. J. Smith)
- 2002, *Field Guide to the Geoarchaeology of the Mescalero Sands, Southeastern New Mexico*. Bureau of Land Management, Historic Preservation Division, Santa Fe, 56 p.
- 2001, Geochronology and paleoenvironments of the glacial-age Tahoka Formation, Texas and New Mexico High Plains: *New Mexico Geology*, v. 23, p. 71-77.
- 2000, Was the High Plains a pine-spruce forest? *Rangelands*, v. 22, p. 3-5.
- 1997, Pollen analysis and woodrat middens: Re-evaluation of Quaternary vegetational history in the American Southwest: *Southwestern Geographer*, v. 1, p. 25-43.
- 1996, Pollen, stratigraphy, and chronology of the north edge of Zuni Pueblo: *The Kiva*, v. 61, p. 225-239. (S. A. Hall and T. J. Ferguson)
- 1995, Grassland vegetation in the southern Great Plains during the Last Glacial Maximum: *Quaternary Research*, v. 44, p. 237-245. (S. A. Hall and S. Valastro)
- 1995, Late Cenozoic palynology in the south-central U.S.: Cases of post-depositional pollen deterioration: *Palynology*, v. 19, p. 103-110.
- 1993, Archaeological palynology in the United States: A critique: *American Antiquity*, v. 58, p. 277-286. (V. M. Bryant, Jr., and S. A. Hall)
- 1991, Progressive deterioration of pollen grains in south-central U.S. rockshelters: *Journal of Palynology*, v. 25, p. 159-169.
- 1990, Holocene landscapes of the San Juan Basin, New Mexico; geomorphic, climatic, and cultural dynamics, in Lasca, N.P., and Donahue, J., eds., *Archaeological Geology of North America: Geol. Soc. Amer., Centennial Special Volume 4*, p. 323-334.
- 1990, Channel trenching and climatic change in the southern U. S. Great Plains: *Geology*, v. 18, p. 342-345.
- 1990, Pollen evidence for historic vegetational change, Hueco Bolson, Texas: *Texas Journal of Science*, v. 42, p. 399-403.
- 1988, Prehistoric vegetation and environment at Chaco Canyon: *American Antiquity*, v. 53, p. 582-592.
- 1988, Environment and archaeology of the Central Osage Plains: *Plains Anthropologist*, v. 33, p. 203-218.
- 1985, Quaternary pollen analysis and vegetational history of the Southwest, in: V. M. Bryant, Jr., and R. G. Holloway, eds., *Pollen Records of Late-Quaternary North American Sediments: Amer. Assoc. Stratigraphic Palynologists Foundation, Dallas*, p. 95-123.
- 1984, Pollen analysis of the Garnsey Bison Kill Site, southeastern New Mexico, in Parry, W. J., and Speth, J. D., *The Garnsey Spring Campsite: Late Prehistoric Occupation in Southeastern New Mexico: Univ. Michigan Museum of Anthropology Technical Reports 15*, p. 85-108.
- 1982, Late Holocene paleoecology of the Southern Plains: *Quaternary Research*, v. 17, p. 391-407.
- 1977, Late Quaternary sedimentation and paleoecologic history of Chaco Canyon, New Mexico: *Geological Society of America Bulletin*, v. 88, p. 1593-1618.
- 1968, A paleosol in central Oklahoma and its archaeological significance: *Bulletin of the Oklahoma Anthropological Society*, v. 16, p. 151-154.